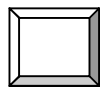


Unit 11 Review Packet – Surface Area & Volume

Directions: In the box provided next to each target section, put an (S) if you were able to complete the section by *yourSELF*, an (H) if you received a *minimal* amount of *HELP* from me, a classmate, or another source, or a (D) if you felt the section was *DIFFICULT* and required you to get *a lot* of help. This will help provide you by giving you feedback as to what topics you should be focusing on as you prepare for the test.



(Vocabulary & Nets)

#’s 1-6, fill the in the blank with the appropriate word from the word bank.

1.

The _____ area is the area of all faces except for the bases of a solid.
2.

A flat 2-dimensional surface of a solid is called a _____.
3.

The intersection of two faces on any solid is called a(n) _____.
4.

The _____ area of any solid is the sum of the areas of all of the faces and the bases.
5.

The measure of the amount of space enclosed by a 3-dimensional figure is its _____.
6.

If a prism has a side that is a shape other than a rectangle, that side is its _____.

Word Bank

Composite

Edge

Volume

Surface

Lateral

Face

Vertex

Net

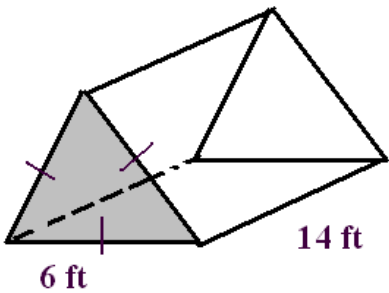
Base



TARGET A (Prisms)

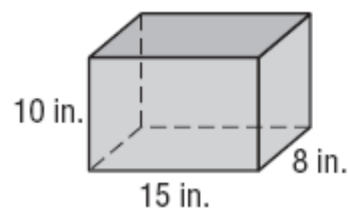
7.

Find the following for the given prism. Round to the hundredths place.



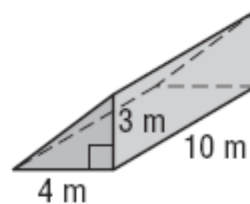
Area of the Base	Lateral Area
Find the surface area.	Find the volume.

8. Find the following for the given prism.



Area of the base.	Find the lateral area.
B = _____	LA = _____
Find the surface area.	Find the volume.
SA = _____	V = _____

9. Find the following for the triangular prism.



Area of the base.	Find the lateral area.
$B = \underline{\hspace{2cm}}$	$LA = \underline{\hspace{2cm}}$
Find the surface area.	Find the volume.
$SA = \underline{\hspace{2cm}}$	$V = \underline{\hspace{2cm}}$

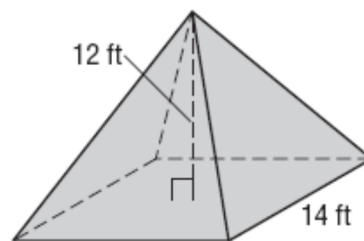


-
- A diagram of a cylinder. A vertical dashed line inside the cylinder represents the height, labeled "23 mm". A horizontal solid line from the center of the base to the outer edge represents the radius, labeled "15 mm".

Area of the base.	Find the lateral area.
B = _____	LA = _____
Find the surface area.	Find the volume.
SA = _____	V = _____



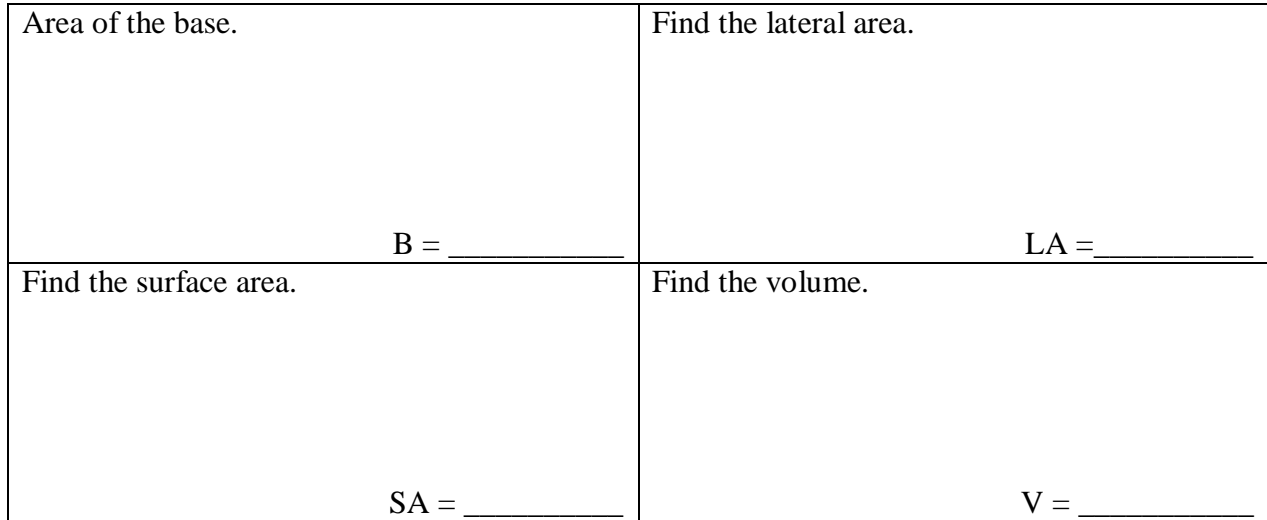
11. Find the following for the given pyramid but first find the **slant height** to the nearest tenth = _____



Area of the base.	Find the lateral area.
$B = \underline{\hspace{2cm}}$	$LA = \underline{\hspace{2cm}}$
Find the surface area.	Find the volume.
$SA = \underline{\hspace{2cm}}$	$V = \underline{\hspace{2cm}}$



- Find the radius_____



-
- A diagram of a sphere with a radius of 5 ft. A horizontal line segment from the center to the right edge is labeled "5 ft".

Find the surface area.	Find the volume.
SA = _____	V = _____